University Collaborations for Safeguards Education LANL/TAMU NGSI Human Capital Development Conference Los Alamos National Laboratory Draft Agenda

Day 1 – Monday August 10, 2009

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8:00-8:30	Registration
8:30 – 9:00 Welcome and Introductions	Jim Doyle William Charlton
9:00 – 10:00 Discussion of Workshop Objectives	
• NGSI Overview, HCD Project Goals (15 min):	Ed Wonder
• Faculty Goals and Resource Needs (45 min):	William Charlton Doug Shaw
10:00-10:15 Break	
10:15-12:00 Faculty Perspectives: Challenges and Approaches for Safeguards/Nonproliferation	Teaching
 Perspectives from Law, Politics and International Affairs (50 min) 	Joe Pilat Michael Rosenthal Jim Doyle
• Perspectives from Science and Engineering (50 min)	Jason Hayward Gary Cerefice
12:00- 1:30 Lunch 1:30- 3:00 Descriptions of Existing Courses:	our corener
• Graduate Level (45 min)	Jim Finucane Sara Pozzi
• Undergraduate Level (45 min)	Joe Pilat Kathleen Trauth
3:00-3:15 Break	

Jim Doyle Elena Sokova

• LANL/TAMU summer course (15 min):

• MIIS/LLNL summer course (15 min):

LLNL Lecture Series and Exercise (15 min)
 ORNL NDA Course and NGSI Workshop (15 min):
 BNL Summer Course (15 min):
 PNNL Activities (15 min)
 Arden Dougan
 Bernie Kirk
 Michael Rosenthal
 Carrie Mathews

4:45-5:00 Summary Day 1

Jim Doyle

Day 2 - Tuesday August 11, 2009

9:00-10:30 Nuclear Safeguards as Multidisciplinary

• Overview of Safeguards History and Mission (30 min): Jim Tape

• Technical Fundamentals of Safeguards (60 min)

Steve Tobin (30 min)

Brian Boyer (30 min)

10:30-10:45 Break

10:45 - 12:30

• Safeguards learning objectives and reference resources: Tom Shea

Brian Boyer

• Lecture-based, lab-based and distance learning tools for safeguards education:

William Charlton Fred Wehling Jack Brenizer

12:30 -2:00 Lunch

2:00-3:30

• Panel on development of curricula bridging natural and social science departments:

Doug Shaw Man-Sung Yim Jim Doyle

3:30-3:45 Break

3:45 – 4:45 Roundtable on multidisciplinary approaches to safeguards education

4:45-5:00 Summary of Day 2 Jim Doyle

Day 3 – Wednesday August 12, 2009

9:00 – 10:30 Presentation of reading and exercise materials

Mike Rosenthal Ross Williams Fred Wehling

10:30-10:45 Break

10:45-12:00

Break into small groups to discuss course materials, assignments, and exercises

12:00-1:30 Working Lunch: LANL Student Technical Discussion and Poster Session

1:30-3:00

Panel on learning objectives for graduate vs. undergraduate level courses and for introductory-advanced modules
 Glenn E. Sjoden Sudarshan Loyalkas

3:00-3:15 Break

3:15-4:30

- Panel discussion on design of degree options, concentrations or certificate programs in nuclear safeguards and the role of University centers
 - What is needed to sustain these?
 - What should be common elements of a certificate program? (so there is some comparability of certificates awarded by different universities)

William Charlton (TBD)

4:30-5:00

- Provide faculty with contact information of lab and subject matter experts available to provide guest lectures.
- Summary and wrap-up

6:00- 8:00 Working Dinner with Speakers

Day 4 – Thursday August 13, 2009

- Tours and Technical Demonstrations at LANL Facilities
 - o Bldg. 27 Schoolhouse Johnna Marlow
 - o UNARM Mike Browne
 - o NDA Lab Steve Tobin, LANL Students

12:00- 1:45 Lunch – Otowi Cafeteria

- o SLD Demo Jim West, Eric Rauch
- o Virtual Reality Tour Birchard Hayes, Kelly Michel
- o Tabletop Open Source Demo Rick Wallace, Frank Pabian
- Gather feedback from faculty attending the training session for use in improving future efforts. How can NNSA best support faculty development of courses, certificate programs, etc.? What concrete action steps will be most helpful?